

Fig. 1

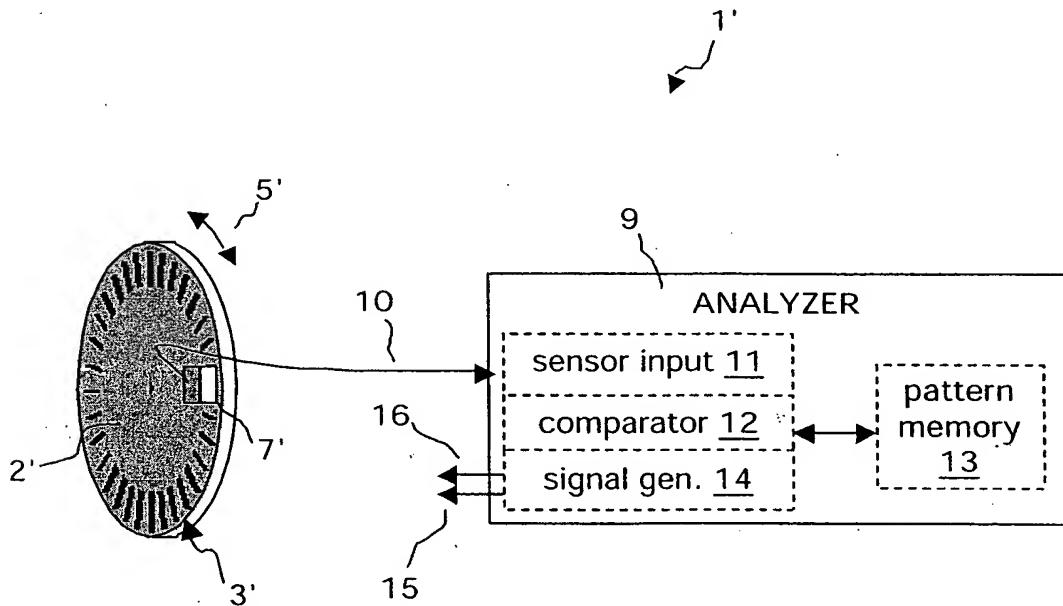


Fig. 2

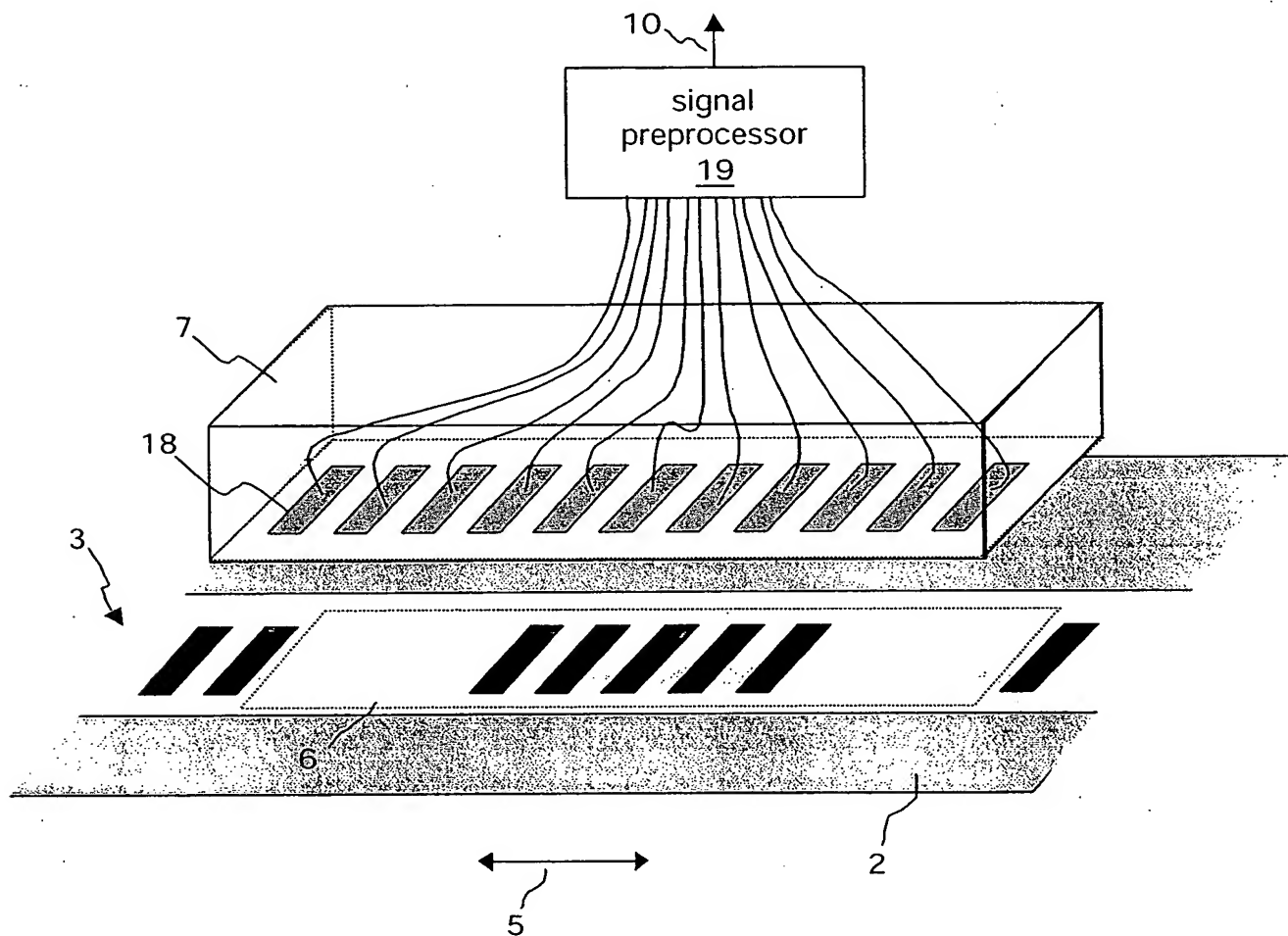


Fig. 3

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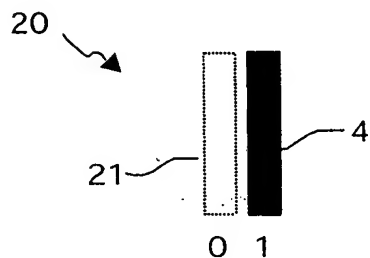


Fig. 4a

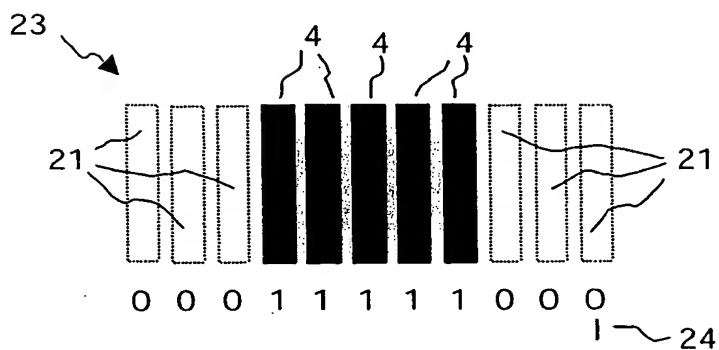


Fig. 4b

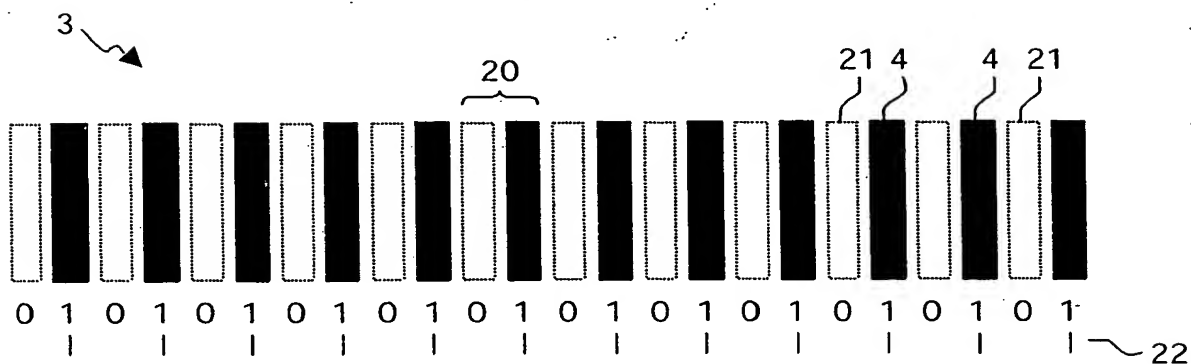


Fig. 4c

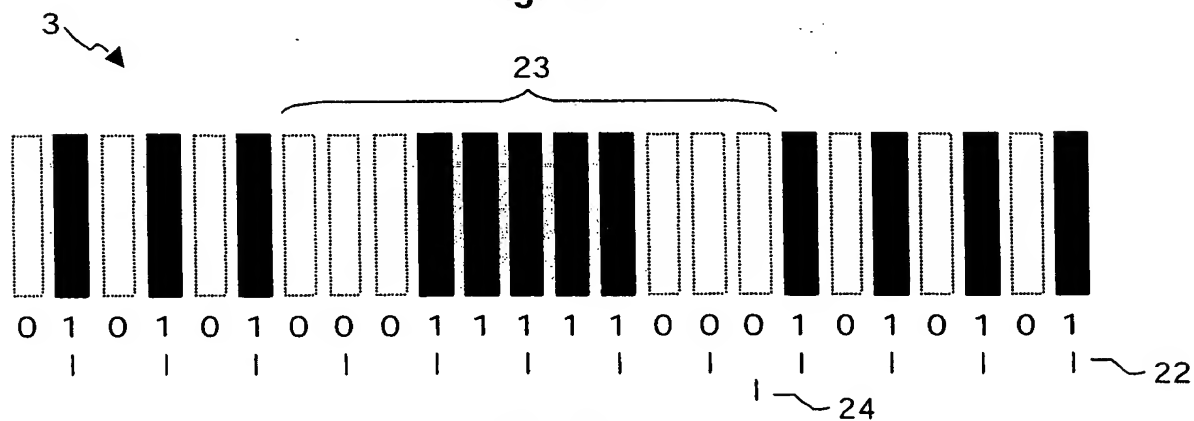


Fig. 4d

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	viewed pattern	incremental signal	index signal
P1		10101010101	1 0
P2		01010101010	0 0
P3		00101010101	1 0
P4		00010101010	0 0
P5		10001010101	1 0
P6		11000101010	0 0
P7		11100010101	1 0
P8		11110001010	0 0
P9		11111000101	1 0
P10		01111100010	0 0
P11		00111110001	1 0
P12		00011111000	0 1
P13		10001111100	1 0
P14		01000111110	0 0
P15		10100011111	1 0
P16		01010001111	0 0
P17		10101000111	1 0
P18		01010100011	0 0
P19		10101010001	1 0
P20		01010101000	0 0
P21		10101010100	1 0
P2		01010101010	0 0
P1		10101010101	1 0

Fig. 5

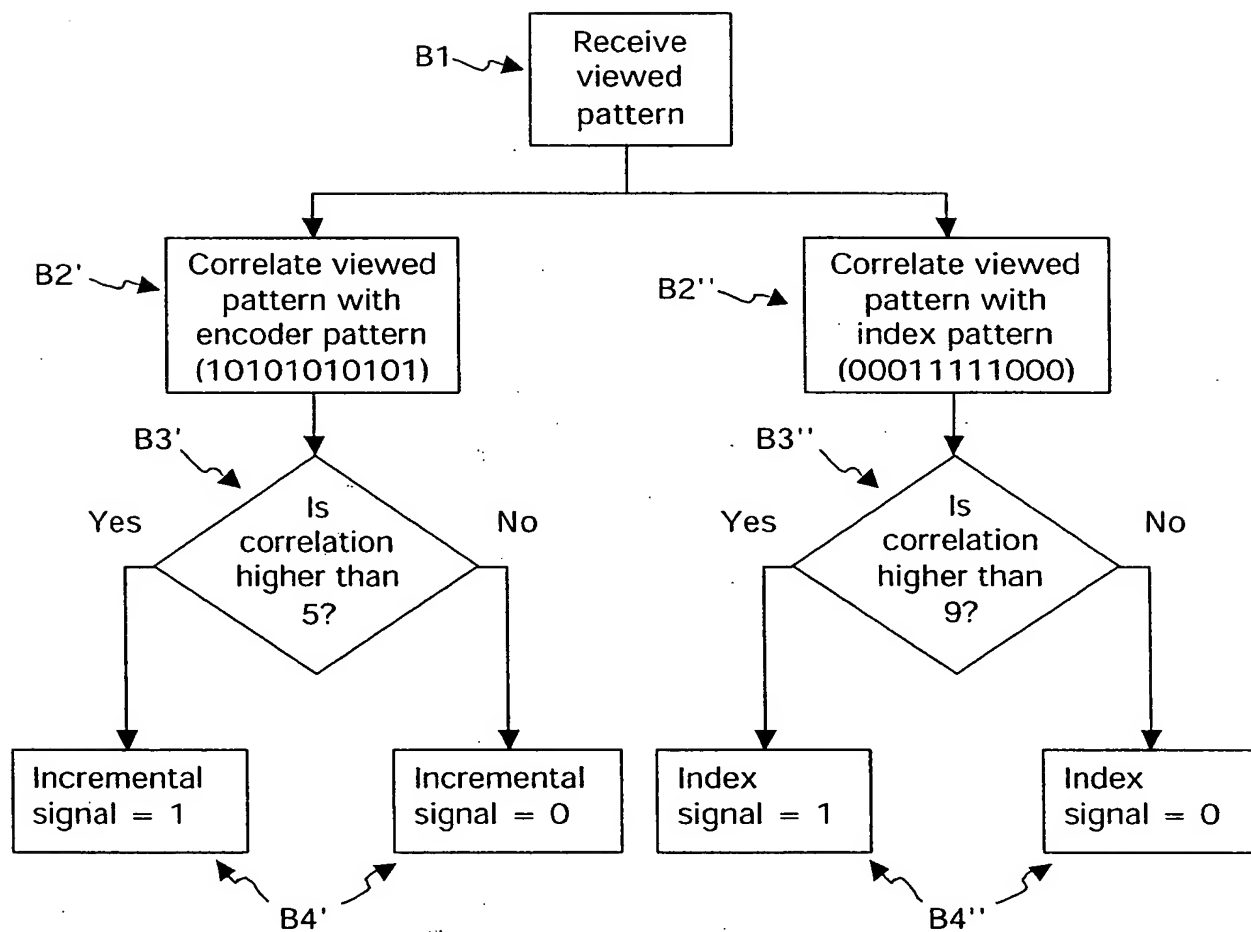


Fig. 6

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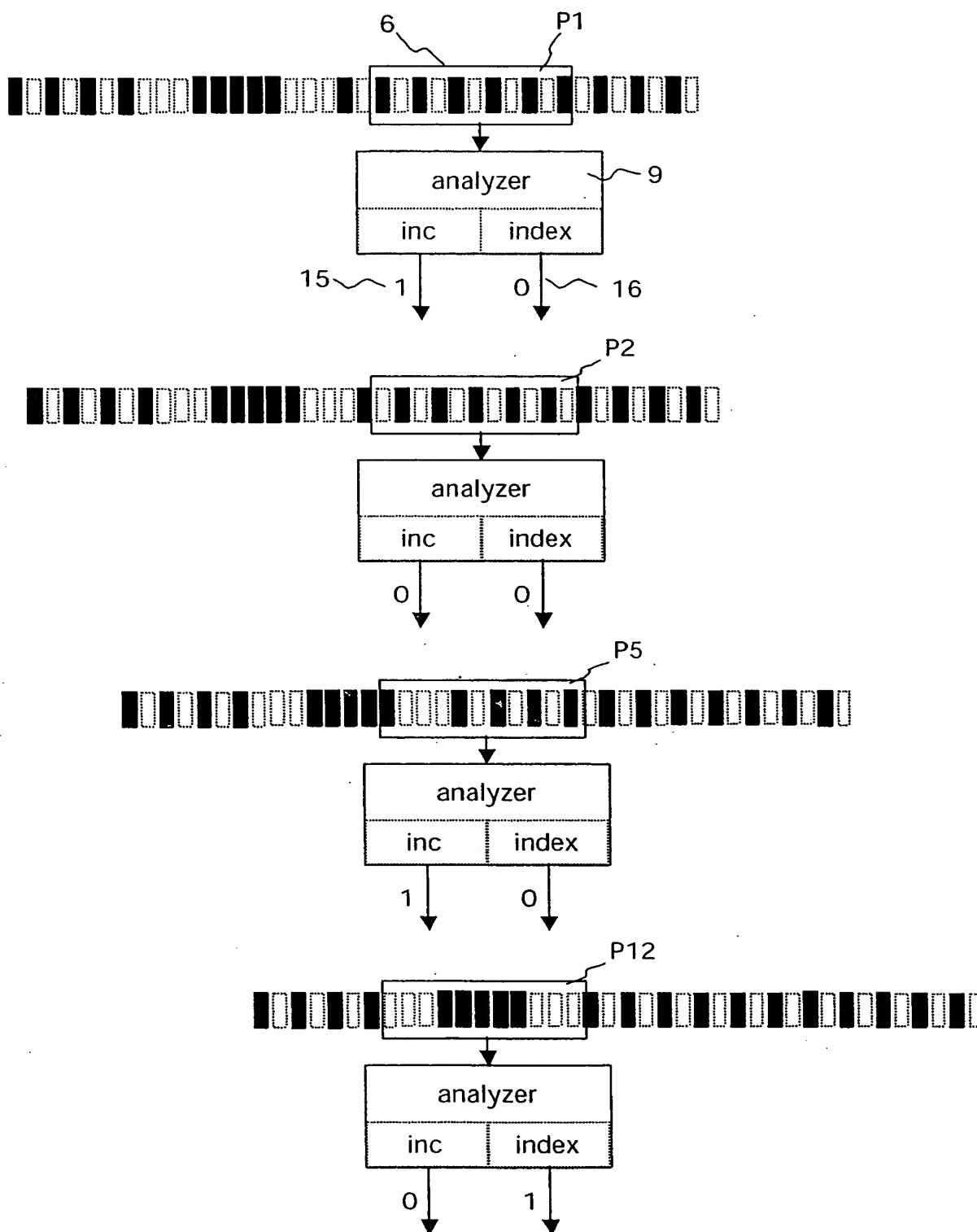
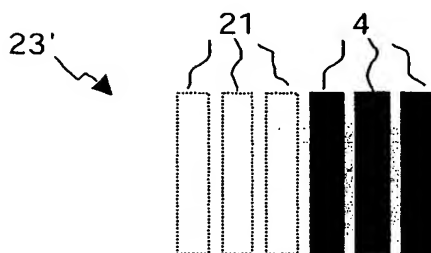


Fig. 7



	viewed pattern	incremental signal	index signal
R1		010101	1
R2		101010	0
R3		110101	1
R4		111010	0
R5		011101	1
R6		001110	0
R7		000111	1
R8		100011	0
R9		010001	1
R10		101000	0
R11		010100	1
R2		101010	0
R1		010101	1

Fig. 8

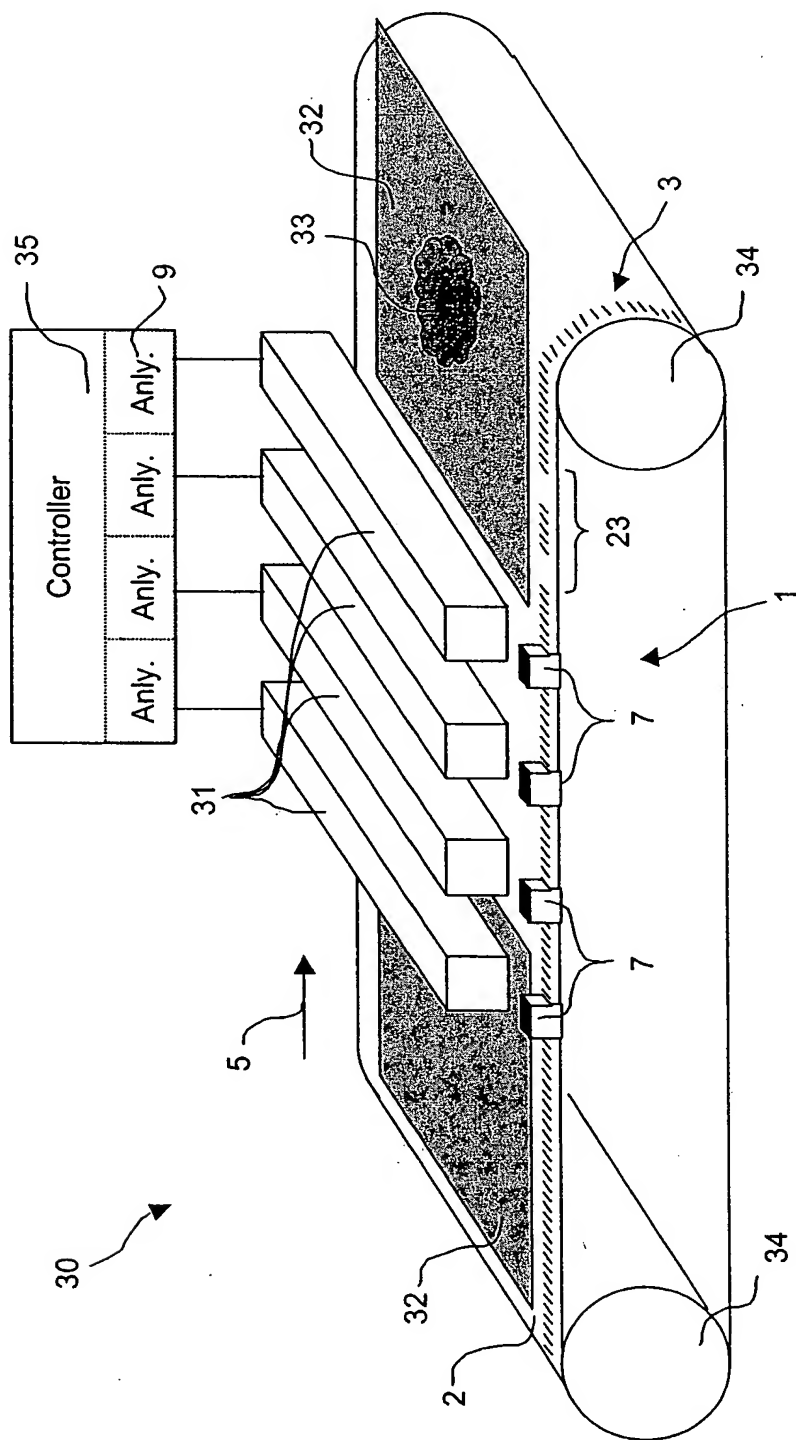


Fig. 9